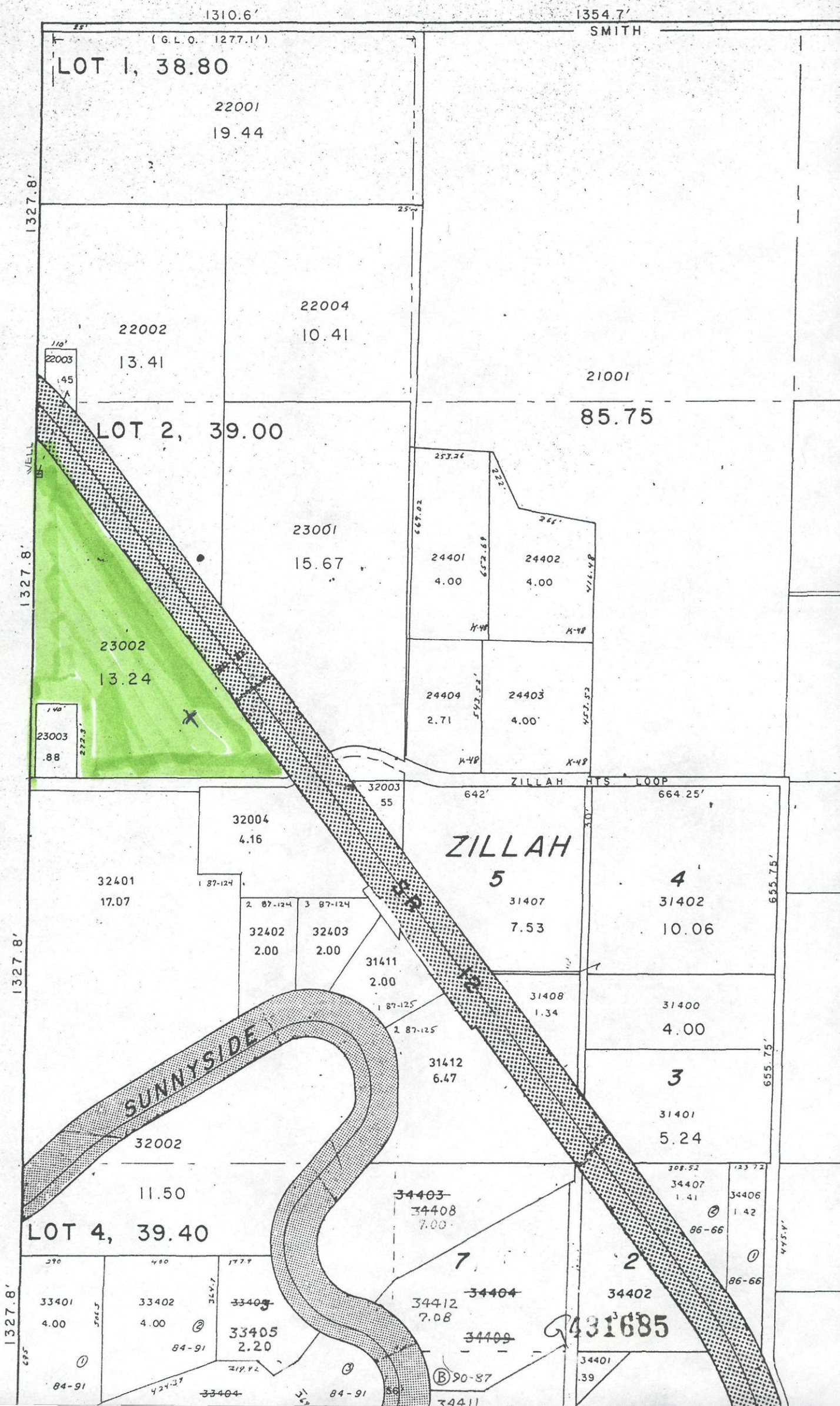


Section 30 Township 11 N

AERIAL 498 52B-9  
6-1-72





3/18/93

These are copies of the things we were given in 1988 when we applied for a permit, but never put it into effect. If you need information not provided here, please let us know. Thank you. Also, I am helping Mrs. Nelson do the paper work on this since she is elderly and hard of hearing. I think you people came up with the gpm and acre feet figures. If they need to be changed please let us know.

Duncan McRayde  
PO Box 182  
Zillah, Wa. 98953  
829-5528

Q431685



STATE OF WASHINGTON  
DEPARTMENT OF ECOLOGY

PERMIT

TO APPROPRIATE PUBLIC WATERS OF THE STATE OF WASHINGTON

- ☐ Surface Water (Issued in accordance with the provisions of Chapter 117, Laws of Washington for 1917, and amendments thereto, and the rules and regulations of the Department of Ecology.)
- ☒ Ground Water (Issued in accordance with the provisions of Chapter 263, Laws of Washington for 1945, and amendments thereto, and the rules and regulations of the Department of Ecology.)

PRIORITY DATE	APPLICATION NUMBER	PERMIT NUMBER	CERTIFICATE NUMBER
March 11, 1988	G4-29675	G4-29675P	

NAME Gladys M. Nelson			
ADDRESS (STREET) Route 1, Box 1790	(CITY) Zillah,	(STATE) Washington	(ZIP CODE) 98953

The applicant is, pursuant to the Report of Examination which has been accepted by the applicant, hereby granted a permit to appropriate the following described public waters of the State of Washington, subject to existing rights and to the limitations and provisions set out herein.

PUBLIC WATER TO BE APPROPRIATED

SOURCE a well
TRIBUTARY OF (IF SURFACE WATERS)

MAXIMUM CUBIC FEET PER SECOND	MAXIMUM GALLONS PER MINUTE 130	MAXIMUM ACRE-FEET PER YEAR 13.4
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QUANTITY, TYPE OF USE, PERIOD OF USE 11.1 acre-feet per year for the supplemental irrigation of 13.9 acres from April 1 to October 31; 2.3 acre-feet per year for frost protection as required.
---

LOCATION OF DIVERSION/WITHDRAWAL

APPROXIMATE LOCATION OF DIVERSION-WITHDRAWAL 400 feet east and 500 feet north of the west quarter corner of Section 30
---

LOCATED WITHIN (SMALLEST LEGAL SUBDIVISION) SW $\frac{1}{4}$ NW $\frac{1}{4}$	SECTION 30	TOWNSHIP N. 11	RANGE, (E. OR W.) W.M. 21 E	W.R.I.A. 37	COUNTY Yakima
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RECORDED PLATTED PROPERTY

LOT	BLOCK	OF (GIVE NAME OF PLAT OR ADDITION)
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LEGAL DESCRIPTION OF PROPERTY ON WHICH WATER IS TO BE USED

Parcel A - (14 acres): That portion of the SW $\frac{1}{4}$  of Government Lot 1 (NW $\frac{1}{4}$ NW $\frac{1}{4}$ ) and the W $\frac{1}{2}$  of Government Lot 2 (SW $\frac{1}{4}$ NW $\frac{1}{4}$ ), both of Section 30, T. 11 N., R. 21 E.W.M. lying north and east of Primary State Highway No. 3, EXCEPT the following described tract:

Beginning at a point 1146 feet south and 25 feet east of the northwest corner of said Section 30; thence east 110 feet; thence south 224.7 feet; thence on a 2 degree curve to the left with a chord distance of 151 feet and a bearing of north 47°15' west; thence north 122.6 feet to the point of beginning.

Parcel B - (0.5 acre): That portion of the SW $\frac{1}{4}$  of Government Lot 1 and the W $\frac{1}{2}$  of Government Lot 2 of Section 30, T. 11 N., R. 21 E.W.M., described as follows: Beginning at a point 1146 feet south and 25 feet east of the northwest corner of said Section 30; thence east 110 feet; thence south 224.7 feet; thence on a 2 degree curve to the left with a chord distance of 151 feet and a bearing of north 47°15' west; thence north for 122.6 feet to the point of beginning. And that portion of Lot 2 described as follows: Beginning at a point 1560 feet south and 25 feet east of the northwest corner of said Section 30; thence east 20 feet; thence south 20 feet; thence west 20 feet; thence north 20 feet to the point of beginning.

Parcel C - (11.5 acres): That portion of Government Lot 2 of Section 30, T. 11 N., R. 21 E.W.M. lying south and west of Primary State Highway No. 3, EXCEPT a 20'x20' well site and access located in the northwest corner of the W $\frac{1}{2}$  of Government Lot 2 of Section 30, T. 11 N., R. 21 E.W.M. described as follows: Beginning at a point 1560 feet south and 25 feet east of the northwest corner of said Section 30; thence east 20 feet; thence south 20 feet; thence west 20 feet; thence north 20 feet back to the point of beginning. And EXCEPT the east 140 feet of the west 160 feet of the south 272 feet of Government Lot 2 of Section 30, T. 11 N., R. 21 E.W.M. and the south 15 feet for roads.

9431685



**DESCRIPTION OF PROPOSED WORKS**

A well, size and depth to be determined; under-tree sprinkler irrigation system.

**DEVELOPMENT SCHEDULE**

BEGIN PROJECT BY THIS DATE: August 1, 1990	COMPLETE PROJECT BY THIS DATE: August 1, 1991	WATER PUT TO FULL USE BY THIS DATE: August 1, 1992
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**PROVISIONS**

Installation and maintenance of an access port as described in Ground Water Bulletin No. 1 is required. An air line and gage may be installed in addition to the access port.

All water wells constructed within the state shall meet the minimum standards for construction and maintenance as provided under RCW 18.104 (Washington Water Well Construction Act of 1971) and Chapter 173-160 WAC (Minimum Standards for Construction and Maintenance of Water Wells).

That portion of this authorization relating to irrigation is classified as a FAMILY FARM PERMIT in accordance with Chapter 90.66 RCW (Initiative Measure No. 59). This means the land being irrigated under this authorization shall comply with the following definition: Family Farm - a geographic area including not more than 2,000 acres of irrigated agricultural lands, whether contiguous or noncontiguous, the controlling interest in which is held by a person having a controlling interest in no more than 2,000 acres of irrigated agricultural lands in the State of Washington which are irrigated under water rights acquired after December 8, 1977. Furthermore, the land being irrigated under this authorization must continue to conform to the definition of a family farm.

The well shall be cased with non-perforated casing and permanently sealed to a minimum depth of 250 feet below land surface. Such sealing shall be performed in accordance with the provisions and standards of WAC Chapter 173-160-100 through Chapter 173-160-140 (Minimum Standards for Construction and Maintenance of Water Wells). The well shall be restricted to a depth corresponding to the top of the Elephant Mountain Member of the Saddle Mountains Basalt Formation, which should be encountered at a depth of approximately 500 feet.

The irrigation water herein authorized to be withdrawn is a supplemental right, with the water made available under primary rights by the Roza Irrigation District; thence, the only water herein permitted for withdrawal is that required to compensate for any deficit in this supply. This amount shall not exceed 0.8 acre-feet per year per acre.

Monthly power meter readings shall be submitted to the Central Regional Office of the Washington State Department of Ecology during the entire period when water is being withdrawn under this right.

Withdrawal of water under this right may be limited or otherwise regulated in favor of senior rights.

*This permit shall be subject to cancellation should the permittee fail to comply with the above development schedule and/or fail to give notice to the Department of Ecology on forms provided by that Department documenting such compliance.*

Given under my hand and the seal of this office at Yakima, Washington, this 10th day of August, 1988.

Department of Ecology

ENGINEERING DATA

OK 46  
5x24 ska

by Russell K. Taylor  
RUSSELL K. TAYLOR, P.E., REGIONAL MANAGER



STATE OF WASHINGTON  
DEPARTMENT OF ECOLOGY

REPORT OF EXAMINATION  
TO APPROPRIATE PUBLIC WATERS OF THE STATE OF WASHINGTON

- ☐ Surface Water (Issued in accordance with the provisions of Chapter 117, Laws of Washington for 1917, and amendments thereto, and the rules and regulations of the Department of Ecology.)
- ☒ Ground Water (Issued in accordance with the provisions of Chapter 263, Laws of Washington for 1945, and amendments thereto, and the rules and regulations of the Department of Ecology.)

PRIORITY DATE	APPLICATION NUMBER	PERMIT NUMBER	CERTIFICATE NUMBER
March 11, 1988	G4-29675		

NAME  
Gladys M. Nelson

ADDRESS (STREET)	(CITY)	(STATE)	(ZIP CODE)
Route 1, Box 1790	Zillah,	Washington	98953

PUBLIC WATERS TO BE APPROPRIATED

SOURCE  
a well

TRIBUTARY OF (IF SURFACE WATERS)

MAXIMUM CUBIC FEET PER SECOND	MAXIMUM GALLONS PER MINUTE	MAXIMUM ACRE-FEET PER YEAR
	130	13.4

QUANTITY, TYPE OF USE, PERIOD OF USE  
11.1 acre-feet per year for the supplemental irrigation of 13.9 acres from April 1 to October 31;

2.3 acre-feet per year for frost protection as required.

LOCATION OF DIVERSION/WITHDRAWAL

APPROXIMATE LOCATION OF DIVERSION-WITHDRAWAL  
400 feet east and 500 feet north of the west quarter corner of Section 30

LOCATED WITHIN (SMALLEST LEGAL SUBDIVISION)	SECTION	TOWNSHIP N.	RANGE, (E. OR W.) W.M.	W.R.I.A.	COUNTY
SW $\frac{1}{4}$ NW $\frac{1}{4}$	30	11	21 E	37	Yakima

RECORDED PLATTED PROPERTY

LOT	BLOCK	OF (GIVE NAME OF PLAT OR ADDITION)

LEGAL DESCRIPTION OF PROPERTY ON WHICH WATER IS TO BE USED

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RETAIN FOR YOUR FILES



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## DESCRIPTION OF PROPOSED WORKS

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A well, size and depth to be determined; under-tree sprinkler irrigation system.

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## DEVELOPMENT SCHEDULE

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BEGIN PROJECT BY THIS DATE:  
August 1, 1990

COMPLETE PROJECT BY THIS DATE:  
August 1, 1991

WATER PUT TO FULL USE BY THIS DATE:  
August 1, 1992

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## REPORT

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### Background

On March 11, 1988, Gladys M. Nelson filed an application to appropriate public ground waters. The application was accepted, assigned number G4-29675, and public notice was made. The 30-day protest period expired with no protests being received.

### Investigation

A field inspection was conducted by the author on April 5, 1988. Based on this inspection, conversations with Mrs. Nelson and Duncan McRayde, the manager of the property, and a review of WDOE office records, the following data were collected:

Mrs. Nelson has requested the withdrawal of 130 gallons per minute (gpm) from a well for the irrigation of 13.9 acres and for frost protection. The property is located approximately 0.5 mile north of the community of Zillah. The property is located south and east of State Highway No. 410 and north of Zillah Loop Road, near the junction of the two roads. The nearly flat land is planted to orchard equipped with solid-set, under-tree sprinklers and 3/32-inch nozzles. A home and several outbuildings are located in the southeastern corner of the property. The Roza Irrigation District assesses 13.9 acres within the parcel.

The applicant proposes to drill a well in the next two to three years to be located approximately 400 feet east and 500 feet north of the west quarter corner of Section 30, being within the SW1/4 NW1/4 of Section 30, T. 11 N., R. 21 E.W.M. The exact size and depth of the well has not yet been determined.

There are no ground water rights on record within a quarter mile radius of the applicant's proposed well site. There are four domestic wells recorded within a quarter mile radius. These range in depth from 60 to 208 feet with a mean depth of 152.8 feet. All these wells penetrate and derive water from the sediments of the Ellensburg Formation. No well report is available for Mrs. Nelson's domestic well, however, its depth is likely less than 208 feet.

In order to offer some protection for the domestic wells in the area, the applicant's well will be required to be cased and sealed to a minimum depth of 250 feet. The Ellensburg Formation in this area is expected to extend to an approximate depth of 500 feet. The well shall be confined to the lower portion of the Ellensburg Formation and shall not be drilled into the underlying basalt. Such a well should have the capacity to deliver the requested 130 gpm.

Based on the many years of operation of the Yakima Project, it is clear that a generally reliable supply of irrigation water is provided by the six divisions of the project. During the 1979 and 1980 water years, there were occurrences of limited water supply combined with structural maintenance to the Lake Cle Elum outlet works and delivery system failures which created unprecedented shortfalls in the water delivery for the divisions of the Yakima Project with proratable rights. During 1979, the Roza Irrigation District patrons received water deliveries which averaged 0.8 acre-feet per acre less than the average delivery for the 1959-1973 period. This annual quantity has been determined to be sufficient to provide an adequate supplemental supply.



Based on an instantaneous pumping rate of 130 gpm and the average requirement for frost protection of 96 hours per season, the annual water requirement for frost protection should not exceed 2.3 acre-feet per year. If the well is not capable of pumping 130 gpm, the annual water allocation for frost protection will be proportionately reduced, when the final certificate is issued, corresponding to the actual capacity of the well.

In order to monitor use patterns for the supplemental irrigation and frost protection wells authorized within the Roza Irrigation District, the applicant will be required to provide this office with monthly power meter readings during the operation of the authorized well. These data, in combination with static water level readings, will be used to further the understanding of the nature of the aquifers in the area.

#### Conclusions

Water is available for the proposed beneficial use. Due to the minimum casing requirement, the distance from neighboring wells, and the supplemental and sporadic nature of the requested uses, there should be no impairment of existing rights. Granting a permit is not contrary to the public interest.

#### Recommendations

It is recommended that an instantaneous quantity of 130 gpm and an annual quantity of 13.4 acre-feet per year be approved for the supplemental irrigation of 13.9 acres from April 1 to October 31 and for frost protection as required.

Installation and maintenance of an access port as described in Ground Water Bulletin No. 1 is required. An air line and gage may be installed in addition to the access port.

All water wells constructed within the state shall meet the minimum standards for construction and maintenance as provided under RCW 18.104 (Washington Water Well Construction Act of 1971) and Chapter 173-160 WAC (Minimum Standards for Construction and Maintenance of Water Wells).

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Withdrawal of water under this right may be limited or otherwise regulated in favor of senior rights.

REPORT BY:

Darlene M. Frye  
Darlene M. Frye

DATE:

July 13, 1988

APPROVED BY:

Doug Clausen  
Doug Clausen, Regional Supervisor

DATE:

July 13, 1988





STATE OF WASHINGTON  
DEPARTMENT OF ECOLOGY

3601 W. Washington • Yakima, Washington 98903-1164 • (509) 575-2800

March 29, 1993

Duncan McRayde  
PO Box 182  
Zillah WA 98953-0182

Re: Ground Water Application for Gladys M. Nelson

Your application and check No. 2557 in the amount of \$10.00 are being returned for the following reasons:

1. It is not clear what the legal description is of the property where the water will be used. You may indicate "Same as Canceled Permit No. G4-29675P" if it is that entire description. Otherwise, you will need to provide a full legal description.
2. You will need to supply a copy of a Yakima County Assessor's map of the property. You will need to highlight the boundaries of the property and mark with an X where the source is located. You will need to provide enough detail so that we will be able to locate section corners. You will need to indicate the areas that will be irrigated under this application.
3. You will need to provide specific written driving instructions to the property on the attached Section Map page.

You will retain your priority date of March 19, 1993, if you return the application, check and all the above-requested information by April 9, 1993.

You may contact this office at (509) 575-2800 if you have any questions.

Sincerely,

Myria J. Autrey Johnson  
Water Resources Program

MJAJ:gh  
9303117

Enclosure(s): Application for Gladys M. Nelson  
Check No. 2557 - \$10.00

ap-1a:Form

G431685

FILE COPY